

T-10975

Original

T-10975

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Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	PLANIMETRIC
Field No.	Office No. T-10975
LOCALITY	
State	ALABAMA
General locality	MOBILE BAY
Locality	MOBILE RIVER - BIG BAYOU CANOT
1957 - 1964	
CHIEF OF PARTY	
Joseph K. Wilson, Chief, Photo Party 720	
William R. Kachel, Tampa District Office	
LIBRARY & ARCHIVES	
DATE	

USCOMM-DC 5087

DESCRIPTIVE REPORT - DATA RECORD

T-10975

Project No. (II): PH-5704

Quadrangle Name (IV):

Field Office (II): Fairhope, Ala.

Chief of Party: Joseph K. Wilson

Photogrammetric Office (III): Tampa, Fla.

Officer-in-Charge: William R. Kachel

Instructions dated (II) (III): II 23 June 1958 (Field

Copy filed in Division of

10 Feb. 1959 (Field Suppl.1)

Photogrammetry (IV)

III 7 Apr. 1959 (Office)

9 Sept. 1959 (Stereo Bridging)

17 Aug. 1959 (Office Suppl.1)

6 Oct. 1959 (Office Suppl.1)

17 Aug. 1959 (Field Suppl.2)

10 Nov. 1959 (Field and Office Suppl.3)

Location of Aids to Navigation dated 7 Oct. 1959

Method of Compilation (III): Stereoscopic Instrument (Kelsh Plotter) and Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:5,000

Scale Factor (III): Pantographed to 1:10,000

Date received in Washington Office (IV) 8/13/59

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MHW

~~Mean sea level~~ except as follows:

Elevations shown as (25) refer to mean high water

Elevations shown as (5) refer to sounding datum

i.e., mean low water or mean lower low water

Reference Station (III): MOBILE BAY LOUISVILLE AND NASHVILLE RAILROAD BRIDGE DRAW SPAN

1935

Lat.: 30°50'12.72" (391.7 m)

Long.: 87°56'40.90" (1086.9 m)

Adjusted

~~Horizontal~~

Plane Coordinates (IV):

State:

Zone:

Y=

X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PLANIMETRIC

Inapplicable

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): W. M. Reynolds

Date: Aug. 1959

Planetable contouring by (II): Inapplicable

Date:

Completion Surveys by (II): W. V. Hull Lt.

Date: April 1961
~~Dec 1960~~

Mean High Water Location (III) (State date and method of location): Air Photo Compilation
Date of Photography: 20 Nov. 1957 and 20 June 1959

Projection and Grids ruled by (IV): J. E. T. (W.O.)

Date: Nov. 1959

Projection and Grids checked by (IV): B. J. Dempsey (W.O.)

Date: Nov. 1959

Control plotted by (III): W. W. Dawsey

Date: Apr. 1960

Control checked by (III): V. P. Cackowski

Date: Apr. 1960

Radial Plot ~~not stereoscopic~~

Date: July 1960

~~Control~~ extension by (III): R. R. Wagner

Stereoscopic control Extension: J. D. Perrow Jr. (W.O.)

Nov. 1959

Planimetry I. I. Saperstein

Date: Sept. 1960

Stereoscopic Instrument compilation (III):

Contours Inapplicable

Date:

Manuscript delineated by (III): I. I. Saperstein
R. J. Pate

Date: Sept. 1960

of compilation
Photogrammetric Office Review by (III): W. H. Shearouse

Date: Dec. 1960

Elevations on Manuscript

checked by (II) (III): Inapplicable

Date:

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): **Single-lens Wild "W" and C&GS Nine-lens**

4.

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
59W-6022	20 June 1959	14:51	1:30,500	Stage of tide
59W-6023	" "	14:51	"	could not be determined
56976	20 Nov. 1957	10:59	1:10,000	with any degree of
56977	" "	10:59	"	accuracy at this point
56978	" "	11:00	"	in the river.

Tide (III)

see above

Reference Station:
Subordinate Station:
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

Washington Office Review by (IV):

Date:

Final Drafting by (IV): **R. Dossett (Tampa District Office)**

Date: **June 1961**

Final Drafting Rev'd by: **W. H. Shearouse (Tampa Dist. Office)**

August 1961

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): **14**

Shoreline (More than 200 meters to opposite shore) (III): **25 linear mi.**

~~Shoreline (Less than 200 meters to opposite shore) (III):~~

Control Leveling - Miles (II): **Inapplicable**

Number of Triangulation Stations searched for (II): **1**

Recovered: **1**

Identified: **1**

Number of BMs searched for (II): **none**

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): **None**

Number of Temporary Photo Hydro Stations established (III): **None**

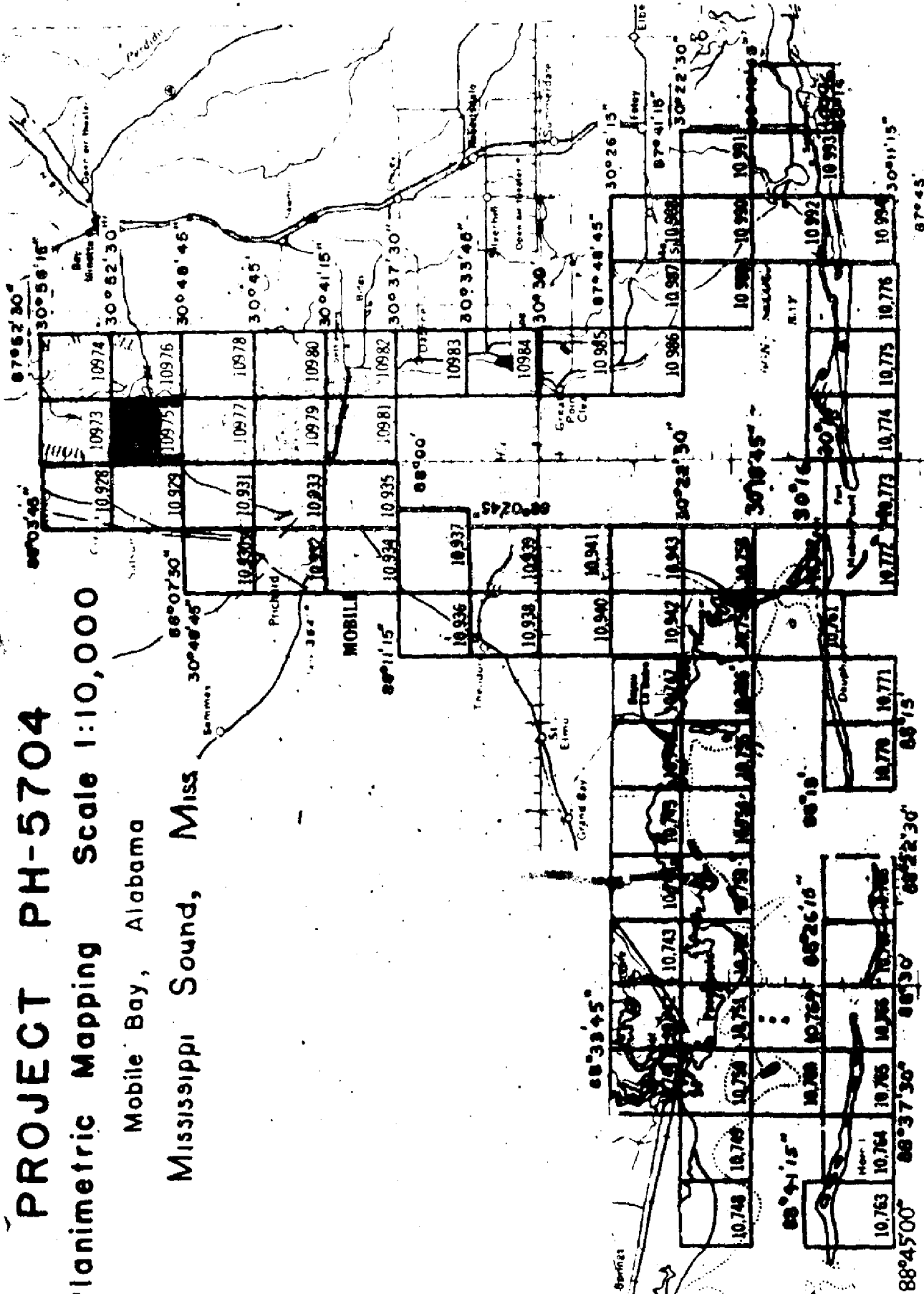
Remarks:

PROJECT PH-5704

Planimetric Mapping Scale 1:10,000

Mobile Bay, Alabama

Mississippi Sound, Miss



FIELD INSPECTION REPORT
Project Ph-5704
Map T-10975

Please refer to the Field Inspection Report for Map T-10974 for all data
pertaining to this map.

Submitted:

Joseph K. Wilson
Joseph K. Wilson
Chief, Photo Party 720

COMPILATION REPORT T-10975PHOTOGRAMMETRIC PLOT REPORT

See Radial Plot Report submitted with T-10928 and the Bridging Report by J. D. Perrow Jr. of the Washington Office.

31. DELINEATION

Both the instrument and graphic methods were used. The graphic method was used for the lower 45 seconds of the manuscript and the Kelsh Plotter for the remainder. The field inspection was adequate and was done on the 1957 nine-lens photographs. However, the single lens photographs were used in the compilation to the limits of their coverage. No difficulty was encountered in the interpretation of the photographs.

Several points common to the single and nine-lens photographs were cut in radially using the nine-lens photographs to check the radial plot against the stereo bridge. The largest discrepancy was 0.2 mm.

32. CONTROL

See Photogrammetric Plot Reports.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage was delineated only where it could be seen on the photographs. The water level in the streams and rivers is apparently higher on the nine-lens photographs than on the single-lens photographs. The drainage was taken from the single-lens photographs, where available and may disagree in minor details occasionally.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline consists only of the banks of the rivers and streams. All alongshore details indicated by the field inspector have been shown. There are no low-water or shoal lines,

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions have been made with T-10973 to the north, T-10929 to the west, T-10976 to the east and T-10977 to the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41. BOUNDARIES

The boundary between Mobile and Baldwin Counties was taken from the description in the "Special Report Boundaries" project Ph-5704 submitted by W. M. Reynolds.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS "HURRICANE, ALA." quadrangle scale 1:24,000 edition of 1953 and USC&GS Air photo compilation No. T-5530 scale 1:20,000 dated 1934. No appreciable differences were noted except the canal which does not appear on the 1934 air photo compilation. "Ortiz Siding" from the quadrangle is not shown on this map (see Item 48).

11.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart 1266 scale 1:80,000 revised to 18 April 1960. The maps listed under Item 46 are probably the source of topography for the chart and the same differences were noted. None of the submerged wrecks shown on the chart were recovered by the field inspection and should be checked by the hydrographic party. The area shown as marsh on the chart is actually swamp.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

I. I. Saperstein
I. I. Saperstein
Cartographer (Photo)

APPROVED AND FORWARDED:

~~William R. Kachel~~
Chief of Party

48. GEOGRAPHIC NAME LIST

Names were taken from the USGS "HURRICANE, ALA." quadrangle. The name Ortiz Siding shown on the quadrangle was omitted because the siding does not exist according to the field inspection.

ALABAMA

ALLIGATOR BAYOU

BALDWIN COUNTY

BIG BAYOU CANOT

BIG BRIER CREEK

BIG LIZARD CREEK

DEAD LAKE

FRANKLIN BAYOU

LITTLE BAYOU CANOT

LITTLE BRIER CREEK

LOUISVILLE AND NASHVILLE RR

MOBILE COUNTY

MOBILE RIVER

OAK LEAF BAYOU

WILLIAMS CREEK

*Names approved
12-10-65
A. J. Wroughton*

49. NOTES FOR THE HYDROGRAPHER

None.

50.

PHOTOGRAMMETRIC OFFICE REVIEW OF ADVANCE MANUSCRIPT

T.10975

1. Projection and grids WHS 2. Title WHS 3. Manuscript numbers WHS 4. Manuscript size WHS

4a Classification label unclassified

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy WHS 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) XX 7. Photo hydro stations XX 8. Bench marks XX 9. Plotting of sextant fixes XX 10. Photogrammetric plot report MMS 11. Detail points KELSH

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline WHS 13. Low-water line XX 14. Rocks, shoals, etc. XX 15. Bridges WHS 16. Aids to navigation XX 17. Landmarks XX 18. Other alongshore physical features WHS 19. Other along-shore cultural features WHS

PHYSICAL FEATURES

20. Water features WHS 21. Natural ground cover WHS 22. Planetable contours XX 23. Stereoscopic instrument contours XX 24. Contours in general XX 25. Spot elevations XX 26. Other physical features WHS

CULTURAL FEATURES

27. Roads XX 28. Buildings XX 29. Railroads WHS 30. Other cultural features WHS

BOUNDARIES

31. Boundary lines WHS 32. Public land lines XX

MISCELLANEOUS

33. Geographic names WHS 34. Junctions WHS 35. Legibility of the manuscript WHS 36. Discrepancy overlay XX 37. Descriptive Report WHS 38. Field inspection photographs WHS 39. Forms WHS

40. William H. Shearouse

Reviewer

William H. Shearouse

Milton M. Slavney

Supervisor, Review Section or Unit

Milton M. Slavney

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Robert R. Wagner
Compiler
Robert R. Wagner

Milton M. Slavney
Supervisor
Milton M. Slavney

43. Remarks:

Field Edit Report
(Shoreline)
Quadrangles T-10928, T-10973,
T-10974, T-10975, T-10976,
T-10977, T-10978, T-10981.

51. Methods

The shoreline was inspected by truck and skiff. The distance to the MHWL was spot checked at intervals from points of known location and found to be correct and adequate, except where noted on the ozalid copies of the map manuscripts and the photographs.

Corrections and additions to the manuscript have been noted on the field edit sheets in red and on the photographs in purple. Deletions are shown in green.

Field edit information has been shown on field edit sheets for T-10928, T-10973, T-10974, T-10975, T-10976, T-10977, T-10978, T-10981; on nine lens photographs 56891, 56893, 56948, 56950, 56954, 56959, 56971, 57012, 57013; nine lens office print 56959.

52. Adequacy of Compilation.

The map compilation appears complete and adequate with the exception to the corrections and additions as shown on the ozalid field edit sheets.

53. Map accuracy.

The accuracy of the map compilation appears to be complete and adequate.

54. Recommendations:

There are no recommendations.

55. Examination of Proof Copy.

No one was contacted to examine a proof copy of the map.

Submitted:

Wesley V. Hull

Wesley V. Hull

LTJG C&GS

Photo Hydro Support Unit 721

Review Report
Planimetric Maps
T-10973 thru T-10980
November 1965

61. General Statement

Area - The project encompasses Mobile Bay and its approaches.

Purpose - The object of this project is to provide base maps for nautical charting and shoreline and horizontal control data for hydrographic surveys.

62. Comparison with Registered Topographic Surveys

T-3713	1:40,000	1918
T-5530	1:20,000	1934

Cultural and shoreline changes have been continuous. These maps are to supersede the above surveys for common area for nautical charting. Also see Item 46.

63. Comparison with Maps of Other Agencies

Bay Minette	1:62,500	1941
Hurricane	1:24,000	1953
Bridgehead	1:24,000	1953

See Item 46.

64. Comparison with Contemporary Hydrographic Surveys

H-8588	1:10,000	1961
H-8589	1:10,000	1961
H-8590	1:10,000	1961
H-8591	1:10,000	1961

Shoreline and control of subject surveys was furnished prior to the hydrographic surveys and apparently no difference of importance exists.

65. Comparison with Nautical Charts

1266	1:80,000	1965
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Because of the scale difference only a visual comparison was made. No notable differences exist.

66. Adequacy of Results and Future Surveys

These surveys were prepared according to project instructions and are within the required accuracy for nautical charting.

Reviewed by:

L. C. Lande

L. C. Lande

Approved by:

Charles H. Hensen
Chief, Photogrammetric Branch

Chief, Nautical Chart Division

L. J. Woodward
Chief, Photogrammetry Division